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NPIC/PD 2-67
5 January 1967

MEMORANDUM FOR: Assistant for Technical Development

SUBJECT : Publications Division Requirement for a "Vugraph Maker"

1. This will assure you that the Publications Division is still as interested in a rapid means for preparing positive transparencies of imagery for incorporation in vugraphs as it was last summer when the request to develop such a device was initially made.

2. The modified version of the [] platemaster, as subsequently developed to specifications, seems to meet this need. Not only would it produce transparencies of suitable size extremely rapidly, but it would also enlarge or reduce the copy, thus providing a wide range of flexibility. As you know, [] of the Publications Division made a trip to [] of IAD to see samples of the product and to discuss technical specifications with one of [] staff engineers. He reported complete satisfaction with the sample products made using the [] diffusion transfer process as well as with performance specifications for the film.

3. Acquisition of such a piece of equipment would provide a quick reaction time for the preparation of special-purpose vugraphs which now require priority handling in the lab to meet crash deadlines. The acquisition of such a piece of equipment should also put the Center in a position to speed up service in an area where it has long been weakest, namely in the after-the-mission phase of intelligence dissemination.

[]
Chief, Publications Division, NPIC

Declass Review by NGA.

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GROUP 1
Excluded from automatic
downgrading and
declassification

Free # 10197

December 12, 1966

Dear Lanny:

Confirming our recent discussion of the DTR transparency material to be used in the automatic viewgraph maker, the following minimum specifications will hold.

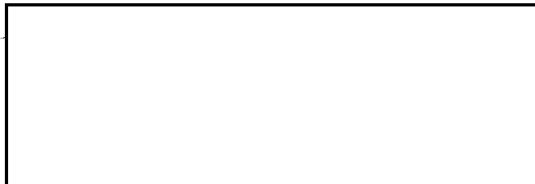
25X1

1. Gamma range: Approximately 0.75 to 1.1 with a nominal of 1.0.
2. Maximum density: At least 1.3.
3. Base plus fog: Nominal of 0.04.
4. Resolving power: Not less than 25 l/mm.
5. Useful exposure latitude: Approximately 1.0 log exposure units. This corresponds to eight or nine steps on a gray scale (ΔD of .15 on gray scale).
6. Density range: At least 1.25.
7. Stability: We can guarantee the stability of the transparent base material for at least 90 days after processing. Tests on the paper have indicated an image permanence of over 12 months; however, we simply have not tested the transparent base material to this extent. I should point out that, fundamentally, the transparent base material should last longer since the base does not absorb as much processing solution as does the paper base.

We are interested and would recommend that you purchase all the required photographic materials and chemistry from us. Not only will this ease the logistics problem, but it will enable us to better insure the quality of the product being supplied. The result will be, of course, to insure the quality and performance of the equipment.

If you have any further questions, please feel free to call me.

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Photography Department

RJK/mab